Index to Volume 72

The Journal of Heredity, 1981

Abbott, U. K., et al.: Genetics of scoliosis in chickens, 6; Studies on the H-W (H-Y) antigen in chickens: evidence for H-W monomorphism and line specific restriction of graft rejection, 169.

Abplanalp, H., et al.: Studies on the H-W (H-Y) antigen in chickens: evidence for H-W monomorphism and line specific restriction of graft rejection, 169; Genetic variation of blood groups in inbred lines of Leghorns, derived from a common base population, 224.

Adamson, W. C. and J. E. O'Bryan, Inheritance of photosensitivity in roselle, *Hibiscus sabdariffa*, 443.

Adolph, S. and J. Klein, Robertsonian variation in *Mus musculus* from Central Europe, Spain, and Scotland, 219.

Age-related pigmentation changes in the coats of allophenic mice, J. Gearhart and M. L. Oster-Granite, 3.

Agouti alleles of *Peromyscus*, R. Robinson, 132.

Aguado, P., Gametic frequencies with two pairs of genes under forward and backward mutation and selection, 146.

Albinism and its inheritance in populations of the montane vole, F. J. Jannett, Jr., 144.

Allard, R. W., et al., Gene triplication and fixed heterozygosity in diploid wild barley, 374.

Allelism of two myelin deficiency mutations in the mouse, D. P. Doolittle, N. Baumann, and G. Chernoff, 285.

Allelism tests of the brown-midrib mutants of sorghum, T. S. Bittinger, R. P. Cantrell, and J. D. Axtell, 147.

Alvarez, E., et al., Karyotypic characterization of three Chilean subspecies of *Liolaemus monticola*, 328.

Analysis of the human genetics content of 13 general biology textbooks, T. R. Mertens and D. Bowman, 364.

Animal Genetics

Ants: evolution of caste systems, 70.

Baboons: genetic effects on serum cholesterol concentrations, 97.

Birds: autosomal allelic series for plumage color in Japanese quail, 61; possible effect of a sex chromosome on reproductive performance in Columbidae, 209; genetic variation in serum enzymes of Belding's Savannah sparrows, 438; chromosome complement and banding patterns in *Phalacrocorax niger*, 447.

Buffalo: chromosome banding homologies in Swamp and Murrah, 183.

Cats: XXY-trisomy identified by banding in male tortoiseshell, 132; inheritance of Chediak-Higashi syndrome, 175; morphologic basis of inherited coat-color dilutions, 178.

Cattle: genetic basis of piebald patterns, 113; hereditary polydactyly in Simmental, 205; some rare cases of chimerism in twins, 360.

Dogs: hereditary hypertrophic neuropathy in Tibetan Mastiff, 287.

Drosophila: population genetics of *D. nasuta nasuta*, *D. nasuta albomicana* and their hybrids, 19; rapid unidirectional change of hybrid dysgenesis potential in *D. melanogaster*, 32; genetics of tumor-W in *D. melanogaster*, 78; artificial selection on sex ratio in *D. pseudoobscura*, 377; recombination variability in temperature stressed *D. melanogaster* females, 427; heritability of water-loss rate in *D. melanogaster*, 434.

Fish: para-albumin polymorphism: an unlinked two-locus system in rainbow trout, 22; induced chromosome number variation in the winter flounder, 189; mitotic and meiotic analysis of brook trout, 321.

Fowl: genetics of scoliosis in chickens, 6; ear tuftedness, a lethal in Araucana chicken, 121; relationship between the dwarfing gene and *E. coli* infection in two populations of chickens, 125; white skin—a Z-linked recessive mutation in chickens, 139; delayed amelanosis (DAM) chicken line—a model for spontaneous cutaneous and ocular amelanosis, 151; studies on the H-W (H-Y) antigen in chickens: evidence for H-W monomorphism and line specific restriction of graft rejection, 169; genetic variation of blood groups in inbred lines of Leghorns derived from a common base population, 224; ultrastructural studies of the nucleoli in diploid and trisomic chickens, 249; identification of galactose-like component of chicken oncodevelopmental antigen, 257; turkey-chicken hybrids: a cytological study of early development, 264; erythrocyte alloantigens in the Storrs strain of hereditary muscular dystrophic chickens and segregating testcross progeny, 279.

Foxes: inherited activation—inactivation of the star gene and its bearing on the problem of domestication, 267; phenotype and gene frequencies in red fox populations of Russian America, 1803–1832, 343.

Gerbils: non-agouti, pink-eyed dilution in Mongolian, 60; genetic variability among commercially available "inbred" animals, 370.

German cockroach: synthesis and properties of a double translocation heterozygote involving a stable ring-of-six interchange, 39; differential effects of duplication-deficiency gametes from *T(3;12)* on embryonic development, 57.

Hamsters: Chinese hamster ovary chromosomes and antigens in tobacco/hamster heterokaryons, 81; five new mutations—furloss, fur-deficiency, juvenile gray, ashen, and quaking, 445.

Horses: coat color and gestation length in Thoroughbred mares, 65; nucleolus organizer regions in chromosomes 357; heritability of training scores for standardbred yearlings, 437.

Isopod: genetic variation in *Armadillidium vulgare*, 15; genetics of mottling, 351.

Lygaeid bugs: genetics of breachyptery in island population, 288.

Mice: age-related coat pigmentation changes in allophenic, 3; congenic strains differ at how many *H* loci?—probability estimates and implications, 27; progressive ankylosis—a new skeletal mutation, 87; inheritance of alternative states of the fused gene, 107; shiverer–autosomal recessive, 128; variation in spermatozoal levels of PGK-2, 129; agouti alleles of *Peromyscus*, 132; null allele at *Mod-1* locus, 134; crossing selected lines vs. selecting from a cross, 142; effects of alleles at the albino locus on odontometric traits in coisogenic, 199; Robertsonian variation in *Mus musculus* from Central Europe, Spain, and Scotland, 219; spleen-shape as a genetic marker in X/Gf strain, 222; white spotting allele alters color of yellow, 223; dactylaplasia: a two-locus model for developmental anomalies, 234; allelism of two myelin deficiency mutations, 285; head blebs, a new mutation on chromosome 4, 293; dominant cataract mutations in offspring of gamma-irradiated male, 303; hyperthermia-induced dominant lethal mutations in males, 338; cell specific action of 5-thio-D-glucose in testis, 347; linkage of dumpy, a recessive on chromosome 13, 358; genetics of *Akp-2* locus for alkaline phosphatase, 387; hairless-obese, 395; chromosome 18, 409; fragilitas ossium—a new autosomal recessive, 440.

Mosquitoes: Pgm polymorphism in *Anopheles culicifacies*, 136; linkage relationships and assignment of esterase-4 and esterase-8 loci to chromosome 3 in *An. albimanus*, 157; genetic sexing for a sterile-male release, 216; control of cytoplasmic incompatibility in the *Aedes scutellaris* complex, 313.

Rabbits: inheritance of Δ^9-tetrahydrocannabinol seizure susceptibility, 215; mandibular prognathism, a simple autosomal recessive, 296; left ostium straight—an inherited anomaly of the female genital tract, 362.

Rats: elevated body zinc in rats with inherited retinal dystrophy, 130; rex mutant in Norway rat, 131; fawn-hooded, the fawn mutation, and interaction of pink-eyed and red-eyed dilution genes, 286; wavy, a new recessive rexoid mutant, 291; assignment of retinal dystrophy (*rdy*) to linkage group IV, 294.

Reptiles: genetics of color pattern polymorphism in California kingsnake, 238; karyotypic characterization of three Chilean subspecies of *Liolaemus monticola*, 328; protein inheritance in kingsnakes, 453.

Snails: multiple paternity in hermaphroditic *Biomphalaria obstructa*, 308.

Stable fly: reciprocal translocations and partial correlation of chromosomes, 104.

Swine: porcine stress syndrome, 429.

Tetrahymena: fertility not a function of geographic distance, 94.
Tribolium: horned gena, an atavistic sex-linked dominant mutation in *T. confusum*, 229.
Vole: albinism in populations of *microtus montanus nanus*, 144.

Apomictic progeny derived from intergeneric *Hordeum-Triticum* hybrids, A. Mujeeb-Kazi, 284.
Artificial selection on the sex ratio in *Drosophila pseudoobscura*, J. W. Curtsinger, 377.
Arulsekar, S. and R. S. Bringhurst, Genetic model for the enzyme marker PGI in diploid California *Fragaria vesca* L.: its variability and use in elucidating the mating system, 117.
Ash. W. J., Population genetics (Rev.), 371.
Assignment of retinal dystrophy (*rdy*) to linkage group IV of the rat, M. M. LaVail, 294.
At how many histocompatibility loci do congenic mouse strains differ?: probability estimates and some implications, L. L. Johnson, 27.
Autosomal allelic series for plumage color in Japanese quail, R. E. Truax and P. B. Siegel, 61.
Axtell, J. D., et al., Allelism tests of the brown-midrib mutants of sorghum, 147.

Baker, R. H., et al.: A phosphoglucomutase polymorphism in the mosquito, *Anopheles culicifacies*, 136; Genetic sexing for a mosquito sterile-male release, 216.
Banerjee, R., et al., Spleen-shape as a genetic marker in X/Gf mice, 222.
Barnes, D. K. and M. A. Brick, Inheritance and ontogeny of a lobed-cambium trait in alfalfa roots, 419.
Barnett, F. L. and G. H. Liang, Cytological effect associated with trisomics "light green" of *Sorghum bicolor*, 59.
Barnett, L., et al., A null allele at the *Mod-1* locus of the mouse, 134.
Bassett, M. J., Inheritance of a lanceolate leaf mutation in the common bean, 431.
Bates, L. S. and B. R. Rajendra, Genetic male and chemically induced sterility in *Triticum aestivum:* a comparison of events leading to sterility via cytogenetic and SEM analysis of microsporogenesis, 52.
Baumann, N., et al., Allelism of two myelin deficiency mutations in the mouse, 285.
Beck, M. L. and J. O. Price, Genetic variation in the terrestrial isopod, *Armadillidium vulgare*, 15.
Beechey, C. V., et al., Chromosome 18 of the house mouse, 409.
Belyaev, D. K., et al.: Inheritance of alternative states of the fused gene in mice, 107; Inherited activation-inactivation of the star gene in foxes: its bearing on the problem of domestication, 267.
Bemis, W. P., et al., Genetic control of gynoecy in the buffalo gourd, 355.
Benson, D. R., et al., Genetics of scoliosis in chickens, 6.
Bentley, B. and G. A. E. Gall, Para-albumin polymorphism: an unlinked two-locus system in rainbow trout, 22.
Bernard, R. L., et al., Inheritance of two chlorophyll-deficient mutants in soybeans, 141.
BIOSYS-1: a FORTRAN Program for the comprehensive analysis of electrophoretic data in population genetics and systematics, D. L. Swofford and R. B. Selander, 281.
Bittinger, T. S., et al., Allelism tests of the brown-midrib mutants of sorghum, 147.
Bloom, S. E. and M. J. Macera, Ultrastructural studies of the nucleoli in diploid and trisomic chickens, 249.
Blumenberg, B., Calculator programs in general genetics: IV. The genetic distance indices G_s^2, ϕ_s, G, D_H, and D_R, 460.
Boissy, R. E., et al., The DAM chicken: a model for spontaneous postnatal cutaneous and ocular amelanosis, 151.
Books reviewed: Evolutionary Biology, Volume 12. Edited by Max K. Hecht, William C. Steere, and Bruce Wallace, 231; Evolving—The Theory and Processes of Organic Evolution. Francisco J. Ayala and James W. Valentine, 232; Principles of Population Genetics, Daniel L. Hartl, 371; Genetics for Dog Breeders, F. B. Hutt, 372.
Borodin, P. M., Phenotype and gene frequencies in red fox populations of Russian America in 1803–1832, 343.
Borodin, P. M., et al., Inheritance of alternative states of the fused gene in mice, .07.
Bowman, D. and T. R. Mertens, An analysis of the human genetics content of 13 general biology textbooks, 364.
Brady, K. D. and S. K. Majumdar, Cell specific action of 5-thio-D-glucose in mouse testis, 347.
Brick, M. A. and D. K. Barnes, Inheritance and ontogeny of a lobed-cambium trait in alfalfa roots, 419.
Briles, R., et al., Genetic variation of blood groups in inbred lines of Leghorns, derived from a common base population, 224.
Briles, W. E., et al., Erythrocyte alloantigens in the Storrs strain of hereditary muscular dystrophic chickens and segregating testcross progeny, 279.
Bringhurst, R. S. and S. Arulsekar, Genetic model for the enzyme marker PGI in diploid California *Fragaria vesca* L.: its variability and use in elucidating the mating system, 117.
Brookey, J., et al., Genetic variation in serum enzymes of Belding's Savannah sparrows, 438.
Brown, M. S., et al., Chromosome configurations and orientations in 58 heterozygous translocations in *Gossypium hirsutum*, 161.
Burk, L. G., Significance of multiple shoots on haploid plantlets of tobacco, 67.
Burke, P. M. and F. K. Hoornbeek, Induced chromosome number variation in the winter flounder, 189.
Burns, J. A. and D. U. Gerstel, Role of nucleolar chromosomes in anther-restoration of male-sterile tobacco, 413.
Buss, E. G. and K. Harada, Turkey-chicken hybrids: a cytological study of early development, 264.

Calculator programs in general genetics: IV. The genetic distance indices G_s^2, ϕ_s, G, D_H, and D_R, B. Blumenberg, 460.
Campos, I., et al., Karyotypic characterization of three Chilean subspecies of *Liolaemus monticola*, 328.
Canine genetics, J. R. Smyth, Jr. (Rev.), 372.
Cantrell, R. P., et al., Allelism tests of the brown-midrib mutants of sorghum, 147.
Cape, L. and L. D. Van Vleck, Heritability of training scores for standardbred yearlings, 437.
Cartwright, T. C., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Castleberry, R. S., et al., Hereditary polydactyly in Simmental cattle, 205.
Cell specific action of 5-thio-D-glucose in mouse testis, K. D. Brady and S. K. Majumdar, 347.
Chai, C. K., Dactylaplasia in mice: a two-locus model for developmental anomalies, 234.
Chasalow, F., et al., A null allele at the *Mod-1* locus of the mouse, 134.
Chen, J. F. and Y. J. Lin, Trisomics in diploid marigold, *Tagetes erecta*, 441.
Chernoff, G. F. Shiverer: an autosomal recessive mutant mouse with myelin deficiency, 128.
Chernoff, G., et al., Allelism of two myelin deficiency mutations in the mouse, 285.
Chinese hamster ovary chromosomes and antigens in tobacco/hamster heterokaryons, I. A. Mastrangelo and J. Mitra, 81.
Chrisman, C. L. and M. L. Garriott, Investigation of hyperthermia-induced dominant lethal mutations in male mice, 338.
Christian, L. L., et al., Inheritance of porcine stress syndrome, 429.
Chromosome banding homologies in Swamp and Murrah buffalo, D. Di Berardino and L. Iannuzzi, 183.
Chromosome complement and banding patterns in a pelecaniform bird, *Phalacrocorax niger*, A. K. Patnaik, M. Samanta, and R. Prasad, 447.
Chromosome configurations and orientations in 58 heterozygous translocations in *Gossypium hirsutum*, M. S. Brown, M. Y. Menzel, C. A. Hasenkampf, and S. Naqi, 161.
Chromosome 18 of the house mouse, P. W. Lane, A. G. Searle, C. V. Beechey, and E. M. Eicher, 409.
Chromosomes of *Arachis* species, section *Arachis*, H. T. Stalker and R. D. Dalmacio, 403.
Chromosomes of *Monotropa uniflora*, K. Maloney and A. F. Finocchio, 458.
Coat color and gestation length in Thoroughbred mares, L. A. Dring, H. F. Hintz, and L. D. Van Vleck, 65.
Cochran, D. G. and M. H. Ross: Synthesis and properties of a double translocation heterozygote involving a stable ring-of-six interchange in the German cockroach, 39; Differential effects of duplication-deficiency gametes from *T(3;12)* embryonic development in the German cockroach, 57.
Coe, E. H., et al., White pollen in maize, 318.
Cohen, B. M., A. I. Kupzow awarded 1980 Vavilov prize, 298.
Cole, L. J. and M. R. Irwin, Possible effect of a sex chromosome on reproductive performance in Columbidae, 209.
Collier, L. L. and D. J. Prieur: Inheritance of the Chediak-Higashi syndrome in cats, 175; Morphologic basis of inherited coat-color dilutions of cats, 178.
Collins, G. B., et al., Hybrid vigor in callus tissue cultures and seedlings of *Nicotiana tabacum* L., 172.
Compensating trisomic in pearl millet, R. S. Saini and J. L. Minocha, 354.
Consroe, P., et al., Inheritance of Δ^9-tetrahydrocannabinol seizure susceptibility in rabbits, 215.
Control of cytoplasmic incompatibility in the *Aedes scutellaris* complex: incompatible crosses become compatible by treatment of larvae with heat or antibiotics, M. Trpis, J. B. Perrone, M. Reissig, and K. L. Parker, 313.
Cornelius, P. L. and N. L. Taylor, Phenotypic recurrent selection for intensity of petal color in red clover, 275.
Crary, D. D. and R. R. Fox, Left ostium straight: an inherited anomaly of the female genital tract in the rabbit, 362.
Crossing selected lines vs. selecting from a cross in mice, D. P. Doolittle and S. P. Wilson, 142.
Curtsinger, J. W., Artificial selection on the sex ratio in *Drosophila pseudoobscura*, 377.

Cytological effect associated with trisomics "light green" of *Sorghum bicolor*, G. H. Liang and F. L. Barnett, 59.
Czaker, R., et al., Nucleolus organizer regions in the chromosomes of the domestic horse, 357.

Dactylaplasia in mice: a two-locus model for developmental anomalies, C. K. Chai, 234.
Dalmacio, R. D. and H. T. Stalker, Chromosomes of *Arachis* species, section *Arachis*, 403.
DAM chicken: a model for spontaneous postnatal cutaneous and ocular amelanosis, J. R. Smyth, Jr., R. E. Boissy, and K. V. Fite, 151.
Deaton, W. R., et al., Hybrid vigor in callus tissue cultures and seedlings of *Nicotiana tabacum* L., 172.
DeGroot, C. T., et al., Five new mutations in the Syrian Hamster: furloss, fur-deficiency, juvenile gray, ashen, and quaking, 445.
DeLahunta, A. and D. P. Sponenberg, Hereditary hypertrophic neuropathy in Tibetan Mastiff dogs, 287.
Delwiche, P. A. and P. H. Williams, Thirteen marker genes in *Brassica nigra*, 289.
Dempsey, B. and M. L. Tracey, Recombination rate variability in *D. melanogaster* females subjected to temperature stress, 427.
Dessauer, H. C. and R. G. Zweifel, Inheritance of transferrin phosphoglucomutase, 6-phosphogluconate dehydrogenase, and prolidase in a breeding colony of kingsnakes, 453.
D-genome sources of resistance in *Triticum tauschii* to Hessian fly, J. H. Hatchett and B. S. Gill, 126.
Di Berardino, D. and L. Iannuzzi, Chromosome banding homologies in Swamp and Murrah buffalo, 183.
Dietert, R. R., et al., Identification of a galactose-like component of a chicken onco-developmental antigen, 257.
Differences among *Coleus* cultivars in tolerance to ozone and sulfur dioxide, P. Semeniuk and H. E. Heggestad, 459.
Differential effects of duplication-deficiency gametes from *T(3;12)* on embryonic development in the German cockroach, M. H. Ross and D. G. Cochran, 57.
Differential reactivity to staining in tree chromosomes, S. E. Schlarbaum and T. Tsuchiya, 62.
Dimse, S., et al., Genetic variation in serum enzymes of Belding's Savannah sparrows, 438.
Dingle, H., et al., Genetics of brachyptery in a lygaeid bug island population, 288.
Dolf, G., et al., Some rare cases of chimerism in twin cattle and their proposed use in determining germinal cell migration, 360.
Dominant cataract mutations detected in offspring of gamma-irradiated male mice, J. Kratochvilova, 303.
Doolittle, D. P. and S. P. Wilson, Crossing selected lines vs. selecting from a cross in mice, 142.
Doolittle, D. P., et al., Allelism of two myelin deficiency mutations in the mouse, 285.
Dossey, B. F., et al., Genetic control of gynoecy in the buffalo gourd, 355.
Dring, L. A., et al., Coat color and gestation length in Thoroughbred mares, 65.
Dubash, C. J., et al., A phosphoglucomutase polymorphism in the mosquito, *Anopheles culicifacies*, 136.

Ear tuftedness: a lethal condition in the Araucana fowl, R. G. Somes, Jr. and M. S. Pabilonia, 121.
Eckhardt, R. B., Evolutionary biology, (Rev.), 231.
Eckhert, C. D., Elevated body zinc in rats with inherited retinal dystrophy, 130.
Eckstrand, I. A., Heritability of water-loss rate in *Drosophila melanogaster*, 434.
Effect of environment and genotype and their interaction on pathogenicity of *Ustilago hordei*: I. Parasite-environment effects, Y. A. Emara and G. W. Freake, 261.
Effects of alleles at the albino lucus on odontometric traits in coisogenic mice, L. Leamy, 199.
Effects of substituting segments of the long arm of chromosome 10 from four inbred lines into inbred line W22 of maize, D. S. Robertson, A. R. Hallauer, and T. C. Kevern, 399.
Eicher, E. M., et al., Chromosome 18 of the house mouse, 409.
Elevated body zinc in rats with inherited retinal dystrophy, C. D. Eckhert, 130.
El-Kassaby, Y. A., Genetic interpretation of malate dehydrogenase isozymes in some conifer species, 451.
Emara, Y. A. and G. W. Freake, Effect of environment and genotype and their interaction on pathogenicity of *Ustilago hordei*: I. Parasite-environment effects, 261.
Epigenesis and the evolution of social systems, E. O. Wilson, 70.
Erickson, R. P. and K. Harper, Variation in spermatozoal levels of phosphoglycerate kinase-2 in mice, 129.
Erythrocyte alloantigens in the Storrs strain of hereditary muscular dystrophic chickens and segregating testcross progeny, B. G. Sanders, K. Kline, and W. E. Briles, 279.
Espinoza, A., et al., Karyotypic characterization of three Chilean subspecies of *Liolaemus monticola*, 328.
Evolutionary biology, (Rev.), R. B. Eckhardt, 231.
Evolutionary relationships based on heterochromatin bands in six species of the Triticinae, B. S. Gill, 391.

Faustini, D., et al., Horned gena, an atavistic sex-linked dominant mutation in *Tribolium confusum*, 229.
Fawn-hooded rats, the fawn mutation and interaction of pink-eyed and red-eyed dilution genes, M. M. LaVail, 286.
Feeley, S. M., et al., Rapid unidirectional change of hybrid dysgenesis potential in *Drosophila*, 32.
Fertility is not a function of geographic distance in *Tetrahymena*, D. Nyberg, 94.
Filion, W. G. and P. MacPherson, Karyotype analysis and the distribution of constitutive heterochromatin in five species of *Pinus*, 193.
Finocchio, A. F. and K. Maloney, Chromosomes of *Monotropa uniflora*, 458.
Fish, B. S., et al., Inheritance of Δ^9-tetrahydrocannabinol seizure susceptibility in rabbits, 215.
Fite, K. V., et al., The DAM chicken: a model for spontaneous postnatal cutaneous and ocular amelanosis, 151.
Five new mutations in the Syrian hamster: furloss, fur-deficiency, juvenile gray, ashen, and quaking, J. S. Peterson, C. T. deGroot, and C. H. Yoon, 445.
Flow, B. L., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Fox, R. R. and D. D. Crary, Left ostium straight: an inherited anomaly of the female genital tract in the rabbit, 362.
Fox, R. R., et al., Inheritance of Δ^9-tetrahydrocannabinol seizure susceptibility in rabbits, 215.
Fox, S. C. and D. S. Varnum, Head blebs: a new mutation on chromosome 4 of the mouse, 293.
Fragilitas ossium: a new autosomal recessive mutation in the mouse, J. L. Guenet, R. Stanescu, P. Maroteaux, and V. Stanescu, 440.
Freake, G. W. and Y. A. Emara, Effect of environment and genotype and their interaction on pathogenicity of *Ustilago hordei*: I. Parasite-environment effects, 261.
Fries, R., et al., Some rare cases of chimerism in twin cattle and their proposed use in determining germinal cell migration, 360.
Further results on the allelic relationships of three uzu genes in barley, T. Tsuchiya, 455.

Gall, G. A. E. and B. Bentley, Para-albumin polymorphism: an unlinked two-locus system in rainbow trout, 22.
Gametic frequencies with two pairs of genes under forward and backward mutation and selection, P. Aguado, 146.
Gametophytic transcription for acid phosphatases in pollen of *Cucurbita* species hybrids, D. L. Mulcahy, R. W. Robinson, M. Ihara, and R. Kesseli, 353.
Garriott, M. L. and C. L. Chrisman, Investigation of hyperthermia-induced dominant lethal mutations in male mice, 338.
Gearhart, J. and M. L. Oster-Granite, Age-related pigmentation changes in the coats of allophenic mice, 3.
Gene dosage effects on catalase expression in maize, A. S. Tsaftaris, J. G. Scandalios, and D. E. McMillin, 11.
Gene triplication and fixed heterozygosity in diploid wild barley, A. L. Kahler, M. I. Morris, and R. W. Allard, 374.

General Genetics

Biology textbooks: an analysis of human genetics content, 364.
BIOSYS-1: a FORTRAN program for the comprehensive analysis of electrophoretic data in population genetics and systematics, 281.
Calculator program: the genetic distance indices G_s^2, ϕ_s, G, D_H, and D_R, 460.
Epigenesis and the evolution of social systems, 70.
Gametic frequencies with two pairs of genes under forward and backward mutation and selection, 146.
Teaching Mendelian inheritance with a herediscope, 64.

Genetic basis for piebald patterns in cattle, T. A. Olson, 113.
Genetic control of gynoecy in the buffalo gourd, B. F. Dossey, W. P. Bemis, and J. C. Scheerens, 355.
Genetic effects on serum cholesterol concentrations in baboons, B. L. Flow, T. C. Cartwright, T. J. Kuehl, G. E. Mott, D. C. Kraemer, A. W. Kruski, J. D. Williams, and H. C. McGill, Jr., 97.
Genetic interpretation of malate dehydrogenase isozymes in some conifer species, Y. A. El-Kassaby, 451.
Genetic male and chemically induced sterility in *Triticum aestivum*: a comparison of events leading to sterility via cytogenetic and SEM analysis of microsporogenesis, B. R. Rajendra and L. S. Bates, 52.

Genetic model for the enzyme marker PGI in diploid California *Fragaria vesca* L.: its variability and use in elucidating the mating system, S. Arulsekar and R. S. Bringhurst, 117.
Genetic sexing for a mosquito sterile-male release, R. H. Baker, R. K. Sakai, and K. Raana, 216.
Genetic variation in serum enzymes of Belding's Savannah sparrows, L. Liu, J. Brookey, S. Dimse, J. B. Williams, and G. Tallman, 438.
Genetic variation in the terrestrial isopod, *Armadillidium vulgare*, M. L. Beck and J. O. Price, 15.
Genetic variation of blood groups in inbred lines of Leghorns, derived from a common base population, H. Abplanalp, Ch. Hagger, and R. Briles, 224.
Genetics of brachyptery in a lygaeid bug island population, E. Klausner, E. R. Miller, and H. Dingle, 288.
Genetics of color pattern polymorphism in the California kingsnake, R. G. Zweifel, 238.
Genetics of D_3 complementary lethality in *Gossypium hirsutum* and *G. barbadense*, J. A. Lee, 299.
Genetics of mottling in the terrestrial isopod, C. Johnson, 351.
Genetics of scoliosis in chickens, J. R. McCarrey, U. K. Abbott, D. R. Benson, and R. S. Riggins, 6.
Genetics of the *Akp-2* locus for alkaline phosphatase of liver, kidney, bone, and placenta in the mouse: linkage with the *Ahd-1* locus on chromosome 4, F. H. Wilcox and B. A. Taylor, 387.
Genetics of tumor-W in *Drosophila melanogaster*: mapping a gene with incomplete penetrance, T. M. Rizki and R. M. Rizki, 78.
Gerstel, D. U. and J. A. Burns, Role of nucleolar chromosomes in anther-restoration of male-sterile tobacco, 413.
Gill, B. S., Evolutionary relationships based on heterochromatin bands in six species of the Triticinae, 391.
Gill, B. S. and J. H. Hatchett, D-genome sources of resistance in *Triticum tauschii* to Hessian fly, 126.
Goldfeder, A., et al., Spleen-shape as a genetic marker in X/Gf mice, 222.
Gonsalves, D., et al., Inheritance of resistance to blackeye cowpea mosaic virus in *Vigna unguiculata*, 433.
Greaves, J. H., Wavy: a new recessive rexoid mutant in the Norway rat, 291.
Green, M. C. and H. O. Sweet, Progressive ankylosis, a new skeletal mutation in the mouse, 87.
Gross, W. B., et al., The relationship between the dwarfing gene and *E. coli* infection in two populations of chickens, 125.
Grossman, M. and M. F. Rothschild, Teaching Mendelian inheritance with a herediscope, 64.
Guenet, J. L., et al., Fragilitas ossium: a new autosomal recessive mutation in the mouse, 440.
Guffy, M. M., et al., Hereditary polydactyly in Simmental cattle, 205.
Gupton, C. L. and M. O. Neas, Inheritance and outcrossing of a cleistogamous mutant in *Nicotiana tabacum* L., 449.
Gustavsson, I. and M. Hageltorn, XXY-trisomy identified by banding techniques in a male tortoiseshell cat, 132.

Hageltorn, M. and I. Gustavsson, XXY-trisomy identified by banding techniques in a male tortoiseshell cat, 132.
Hagger, Ch., et al., Genetic variation of blood groups in inbred lines of Leghorns, derived from a common base population, 224.
Hairless-obese mouse, W. D. Stansfield, 395.
Hallauer, A. R., et al., Effects of substituting segments of the long arm of chromosome 10 from four inbred lines into inbred line W22 of maize, 399.
Hanna, W. W., et al., Polypeptides in ovaries from sexual and apomictic *Panicum maximum* Jacq., 368.
Harada, K. and E. G. Buss, Turkey-chicken hybrids; a cytological study of early development, 264.
Harper, K. and R. P. Erickson, Variation in spermatozoal levels of phosphoglycerate kinase-2 in mice, 129.
Hasenkampf, C. A., et al., Chromosome configurations and orientations in 58 heterozygous translocations in *Gossypium hirsutum*, 161.
Hatchett, J. H. and B. S. Gill, D-genome sources of resistance in *Triticum tauschii* to Hessian fly, 126.
Head blebs: a new mutation on chromosome 4 of the mouse, D. S. Varnum and S. C. Fox, 293.
Heggestad, H. E. and P. Semeniuk, Differences among *Coleus* cultivars in tolerance to ozone and sulfur dioxide, 459.
Henley, M. and R. Robinson, Non-agouti and pink-eyed dilution in the Mongolian gerbil, 60.
Hereditary hypertrophic neuropathy in Tibetan Mastiff dogs, I. P. Sponenberg and A. deLahunta, 287.
Hereditary polydactly in Simmental cattle, J. L. Johnson, H. W. Leipold, R. R. Schalles, M. M. Guffy, J. G. Peeples, R. S. Castleberry, and H. J. Schneider, 205.
Heritability of training scores for standardbred yearlings, L. Cape and L. D. Van Vleck, 437.
Heritability of water-loss rate in *Drosophila melanogaster*, I. A. Eckstrand, 434.
High level of genetic variability among commercially available "inbred" Mongolian gerbils, A. D. Waring, 370.
Hintz, H. F., et al., Coat color and gestation length in Thoroughbred mares, 65.
Hittle, C. N., et al., Inheritance of two chlorophyll-deficient mutants in soybeans, 141.
Hollander, W. F., Linkage relations of dumpy, a recessive mutant on chromosome 13 of the mouse, 358.
Hoornbeek, F. K. and P. M. Burke, Induced chromosome number variation in the winter flounder, 189.
Horned gena, an atavistic sex-linked dominant mutation in *Tribolium confusum*, A. Sokoloff, F. Papini, and D. Faustini, 229.
Huang, C. M., et al., Mandibular prognathism in the rabbit: discrimination between single-locus and multifactorial models of inheritance, 296.
Hybrid vigor in callus tissue cultures and seedlings of *Nicotiana tabacum* L., G. J. Keyes, W. R. Deaton, G. B. Collins, and P. D. Legg, 172.

Iannuzzi, L. and D. Di Berardino, Chromosome banding homologies in Swamp and Murrah buffalo, 183.
Identification of a galactose-like component of a chicken onco-developmental antigen, R. R. Dietert, H. A. Lewin, and L. B. Kass, 257.
Ihara, M., et al., Gametophytic transcription for acid phosphatases in pollen of *Cucurbita* species hybrids, 353.
Induced chromosome number variation in the winter flounder, F. K. Hoornbeek and P. M. Burke, 189.
Inheritance and ontogeny of a lobed-cambium trait in alfalfa roots, M. A. Brick and D. K. Barnes, 419.
Inheritance and outcrossing of a cleistogamous mutant in *Nicotiana tabacum* L., C. L. Gupton and M. O. Neas, 449.
Inheritance and variation of amylase in cultivated and wild soybeans and their wild relatives, Y. T. Kiang, 382.
Inheritance of a lanceolate leaf mutation in the common bean, M. J. Bassett, 431.
Inheritance of alternative states of the fused gene in mice, D. K. Belyaev, A. O. Ruvinsky, and P. M. Borodin, 107.
Inheritance of a pale-green foliage mutant in beans, *Phaseolus vulgaris* L., J. E. Wyatt, 218.
Inheritance of Δ^9-tetrahydrocannabinol seizure susceptibility in rabbits, B. S. Fish, P. Consroe, and R. R. Fox, 215.
Inheritance of ornamental traits in mountain laurel, *Kalmia latifolia*, R. A. Jaynes, 245.
Inheritance of photosensitivity in roselle, *Hibiscus sabdariffa*, W. C. Adamson and J. E. O'Bryan, 443.
Inheritance of porcine stress syndrome, J. W. Mabry, L. L. Christian, and D. L. Kuhlers, 429.
Inheritance of resistance to blackeye cowpea mosaic virus in *Vigna unguiculata*, M. A. Taiwo, R. Provvidenti, and D. Gonsalves, 433.
Inheritance of the Chediak-Higashi syndrome in cats, D. J. Prieur and L. L. Collier, 175.
Inheritance of transferrin, phosphoglucomutase, 6-phosphogluconate dehydrogenase, and prolidase in a breeding colony of kingsnakes, H. C. Dessauer and R. G. Zweifel, 453.
Inheritance of two chlorophyll-deficient mutants in soybeans, C. R. Nissly, R. L. Bernard, and C. N. Hittle, 141.
Inherited activation-inactivation of the star gene in foxes: its bearing on the problem of domestication, D. K. Belyaev, A. O. Ruvinsky, and L. N. Trut, 267.
Intergeneric hybrid of *Triticum aestivum* L. × *Elymus giganteus*, A. Mujeeb-Kazi and R. Rodriguez, 253.
Investigation of hyperthermia-induced dominant lethal mutations in male mice, M. L. Garriott and C. L. Chrisman, 338.
Irwin, M. R. and L. J. Cole, Possible effect of a sex chromosome on reproductive performance in Columbidae, 209.

Jannett, F. J., Jr., Albinism and its inheritance in populations of the montane vole, 144.
Jaynes, R. A., Inheritance of ornamental traits in mountain laurel, *Kalmia latifolia*, 245.
Johnson, C., Genetics of mottling in the terrestrial isopod, 351.
Johnson, F. M., et al., A null allele at the *Mod-1* locus of the mouse, 134.
Johnson, J. L., et al., Hereditary polydactyly in Simmental cattle, 205.
Johnson, L. L., At how many histocompatibility loci do congenic mouse strains differ?: probability estimates and some implications, 27.
Joslyn, D. J., et al., Reciprocal translocations and partial correlation of chromosomes in the stable fly, 104.

Kahler, A. L., et al., Gene triplication and fixed heterozygosity in diploid wild barley, 374.
Karyotype analysis and the distribution of constitutive heterochromatin in five species of *Pinus*, P. MacPherson and W. G. Filion, 193.

Karyotypic characterization of three Chilean subspecies of *Liolaemus monticola*, M. Lamborot, E. Alvarez, I. Campos, and A. Espinoza, 328.
Kass, L. B., et al., Identification of a galactose-like component of a chicken onco-developmental antigen, 257.
Kesseli, R., et al., Gametophytic transcription for acid phosphatases in pollen of *Cucurbita* species hybrids, 353.
Kevern, T. C., et al., Effects of substituting segments of the long arm of chromosome 10 from four inbred lines into inbred line W22 of maize, 399.
Key Lecture: Epigenesis and the evolution of social systems, E. O. Wilson, 70.
Keyes, G. J., et al., Hybrid vigor in callus tissue cultures and seedlings of *Nicotiana tabacum* L., 172.
Kheyr-Pour, A., Wide nucleo-cytoplasmic polymorphism for male sterility in *Origanum vulgare*, L., 45.
Kiang, Y. T., Inheritance and variation of amylase in cultivated and wild soybeans and their wild relatives, 382.
Kidwell, M. G., et al., Rapid unidirectional change of hybrid dysgenesis potential in *Drosophila*, 32.
Kitzmiller, J. B., et al., Linkage relationships and assignment of esterase-4 and esterase-8 loci to chromosome 3 in *Anopheles albimanus*, 157.
Klausner, E., et al., Genetics of brachyptery in a lygaeid bug island population, 288.
Klein, J. and S. Adolph, Robertsonian variation in *Mus musculus* from Central Europe, Spain, and Scotland, 219.
Kline, K., et al., Erythrocyte alloantigens in the Storrs strain of hereditary muscular dystrophic chickens and segregating testcross progeny, 279.
Kopp, E., et al., Nucleolus organizer regions in the chromosomes of the domestic horse, 357.
Kraemer, D. C., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Kratochvilova, J., Dominant cataract mutations detected in offspring of gamma-irradiated male mice, 303.
Krishnamurthy, N. B. and H. A. Ranganath, Population genetics of *Drosophila nasuta nasuta*, *Drosophila nasuta albomicana* and their hybrids: VI. Pattern of meiotic F_1 chromosome segregation, 19.
Kruski, A. W., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Kuehl, T. J., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Kuhlers, D. L., et al., Inheritance of porcine stress syndrome, 429.
Kumar, I., Nodal planting—a new means of clonal propagation in rice, 298.
Kupzow, A. I. awarded 1980 Vavilov prize, B. M. Cohen, 298.

Lamborot, M., et al., Karyotypic characterization of three Chilean subspecies of *Liolaemus monticola*, 328.
Lamoreux, M. L., White spotting allele alters color of yellow mice, 223.
Lane, P. W., et al., Chromosome 18 of the house mouse, 409.
LaVail, M. M.: Fawn-hooded rats, the fawn mutation and interaction of pink-eyed and red-eyed dilution genes, 286; Assignment of retinal dystrophy (*rdy*) to linkage group IV of the rat, 294.
Leamy, L., Effects of alleles at the albino locus on odontometric traits in coisogenic mice, 199.
Lee, C.-Y., et al., A null allele at the *Mod-1* locus of the mouse, 134.
Lee, G. M. and J. E. Wright, Jr., Mitotic and meiotic analyses of brook trout, *Salvelinus fontinalis*, 321.
Lee, J. A., Genetics of D_3 complementary lethality in *Gossypium hirsutum* and *G. barbadense*, 299.
Left ostium straight: an inherited anomaly of the female genital tract in the rabbit, D. D. Crary and R. R. Fox, 362.
Legg, P. D., et al., Hybrid vigor in callus tissue cultures and seedlings of *Nicotiana tabacum* L., 172.
Leipold, H. W., et al., Hereditary polydactyly in Simmental cattle, 205.
Lewin, H. A., et al., Identification of a galactose-like component of a chicken onco-developmental antigen, 257.
Lewis, S. E., et al., A null allele at the *Mod-1* locus of the mouse, 134.
Liang, G. H. and F. L. Barnett, Cytological effect associated with trisomics "light green" of *Sorghum bicolor*, 59.
Lin, Y. J. and J. F. Chen, Trisomics in diploid marigold, *Tagetes erecta*, 441.
Linkage relations of dumpy, a recessive mutant on chromosome 13 of the mouse, W. F. Hollander, 358.
Linkage relationships and assigment of esterase-4 and esterase-8 loci to chromosome 3 in *Anopheles albimanus*, S. Narang, J. A. Seawright, and J. B. Kitzmiller, 157.
Liu, L., et al., Genetic variation in serum enzymes of Belding's Savannah sparrows, 438.

Mabry, J. W., et al., Inheritance of porcine stress syndrome, 429.
Macera, M. J. and S. E. Bloom, Ultrastructural studies of the nucleoli in diploid and trisomic chickens, 249.
MacPherson, P. and W. G. Filion, Karyotype analysis and the distribution of constitutive heterochromatin in five species of *Pinus*, 193.
Majumdar, S. K. and K. D. Brady, Cell specific action of 5-thio-D-glucose in mouse testis, 347.
Maloney, K. and A. F. Finocchio, Chromosomes of *Monotropa uniflora*, 458.
Mandibular prognathism in the rabbit: discrimination between single-locus and multifactorial models of inheritance, C. M. Huang, M. P. Mi, and D. W. Vogt, 296.
Maroteaux, P., et al., Fragilitas ossium: a new autosomal recessive mutation in the mouse, 440.
Marsteller, F. A., et al., The relationship between the dwarfing gene and *E. coli* infection in two populations of chickens, 125.
Mastrangelo, I. A. and J. Mitra, Chinese hamster ovary chromosomes and antigens in tobacco/hamster heterokaryons, 81.
Mauldin, J. M., et al., The relationship between the dwarfing gene and *E. coli* infection in two populations of chickens, 125.
Mayr, B., et al., Nucleolus organizer regions in the chromosomes of the domestic horse, 357.
McCarrey, J. R., et al.: Genetics of scoliosis in chickens, 6; Studies on the H-W (H-Y) antigen in chickens: evidence for H-W monomorphism and line specific restriction of graft rejection, 169.
McCormick, S. M., et al., White pollen in maize, 318.
McGibbon, W. H., White skin: a Z-linked recessive mutation in the fowl, 139.
McGill, H. C., Jr., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
McMillin, D. E., et al., Gene dosage effects on catalase expression in maize, 11.
Menzel, M. Y., et al., Chromosome configurations and orientations in 58 heterozygous translocations in *Gossypium hirsutum*, 161.
Mertens, T. R. and D. Bowman, An analysis of the human genetics content of 13 general biology textbooks, 364.
Mi, M. P., et al., Mandibular prognathism in the rabbit: discrimination between single-locus and multifactorial models of inheritance, 296.
Miller, E. R., et al., Genetics of brachyptery in a lygaeid bug island population, 288.
Minocha, J. L. and R. S. Saini, A compensating trisomic in pearl millet, 354.
Mitotic and meiotic analyses of brook trout, *Salvelinus fontinalis*, G. M. Lee and J. E. Wright, Jr., 321.
Mitra, J. and I. A.Mastrangelo, Chinese hamster ovary chromosomes and antigens in tobacco/hamster heterokaryons, 81.
Mitra, J., et al., Spleen-shape as a genetic marker in X/Gf mice, 222.
Modena, S. A., et al., White pollen in maize, 318.
Morphologic basis of inherited coat-color dilutions of cats, D. J. Prieur and L. L. Collier, 178.
Morris, M. I., et al., Gene triplication and fixed heterozygosity in diploid wild barley, 374.
Mortensen, J. A., Sources and inheritance of resistance to anthracnose in *Vitis*, 423.
Mott, G. E., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Mujeeb-Kazi, A.: *Triticum timopheevii* × *Secale cereale* crossability, 227; Apomictic progeny derived from intergeneric *Hordeum-Triticum* hybrids, 284.
Mujeeb-Kazi, A. and R. Rodriguez, An intergeneric hybrid of *Triticum aestivum* L. × *Elymus giganteus*, 253.
Mulcahy, D. L., et al., Gametophytic transcription for acid phosphatases in pollen of *Cucurbita* species hybrids, 353.
Multiple paternity in the hermaphroditic snail, *Biomphalaria obstructa*, M. Mulvey and R. C. Vrijenhoek, 308.
Mulvey, M. and R. C. Vrijenhoek, Multiple paternity in the hermaphroditic snail, *Biomphalaria obstructa*, 308.

Naqi, S., et al., Chromosome configurations and orientations in 58 heterozygous translocations in *Gossypium hirsutum*, 161.
Narang, S., et al., Linkage relationships and assignment of esterase-4 and esterase-8 loci to chromosome 3 in *Anopheles albimanus*, 157.
Neas, M. O. and C. L. Gupton, Inheritance and outcrossing of a cleistogamous mutant in *Nicotiana tabacum* L., 449.
Nickel, C., et al., Reciprocal translocations and partial correlation of chromosomes in the stable fly, 104.
Nissly, C. R., et al., Inheritance of two chlorophyll-deficient mutants in soybeans, 141.
Nodal planting—a new means of clonal propagation in rice, I. Kumar, 298.
Non-agouti and pink-eyed dilution in the Mongolian gerbil, M. Henley and R. Robinson, 60.
Novy, J. B., et al., Rapid unidirectional change of hybrid dysgenesis potential in *Drosophila*, 32.

Nucleolus organizer regions in the chromosomes of the domestic horse, E. Kopp, B. Mayr, R. Czaker, and W. Schleger, 357.
Null allele at the *Mod-1* locus of the mouse, F. M. Johnson, F. Chasalow, S. E. Lewis, L. Barnett, and C.-Y. Lee, 134.
Nyberg, D., Fertility is not a function of geographic distance in *Tetrahymena*, 94.

O'Bryan, J. E. and W. C. Adamson, Inheritance of photosensitivity in roselle, *Hibiscus sabdariffa*, 443.
Olson, T. A., The genetic basis for piebald patterns in cattle, 113.
Organelle transmission in higher plants: organelle alteration vs. physical exclusion, K. C. Vaughn, 335.
Organic evolution, (Rev.), W. J. Tabachnick, 232.
Oster-Granite, M. L. and J. Gearhart, Age-related pigmentation changes in the coats of allophenic mice, 3.

Pabilonia, M. S. and R. G. Somes, Jr., Ear tuftedness: a lethal condition in the Araucana fowl, 121.
Papini, F., et al., Horned gena, an atavistic sex-linked dominant mutation in *Tribolium confusum*, 229.
Para-albumin polymorphism: an unlinked two-locus system in rainbow trout, G. A. E. Gall and B. Bentley, 22.
Parker, K. L., et al., Control of cytoplasmic incompatibility in the *Aedes scutellaris* complex: incompatible crosses become compatible by treatment of larvae with heat or antibiotics, 313.
Patnaik, A. K., et al., Chromosome complement and banding patterns in a pelecaniform bird, *Phalacrocorax niger*, 447.
Peeples, J. G., et al., Hereditary polydactyly in Simmental cattle, 205.
Perrone, J. B., et al., Control of cytoplasmic incompatibility in the *Aedes scutellaris* complex: incompatible crosses become compatible by treatment of larvae with heat or antibiotics, 313.
Peterson, J. S., et al., Five new mutations in the Syrian hamster: furloss, fur-deficiency, juvenile gray, ashen, and quaking, 445.
Phenotype and gene frequencies in red fox populations of Russian America in 1803–1832, P. M. Borodin, 343.
Phenotypic recurrent selection for intensity of petal color in red clover, P. L. Cornelius and N. L. Taylor, 275.
Phosphoglucomutase polymorphism in the mosquito, *Anopheles culicifacies*, C. J. Dubash, R. K. Sakai, and R. H. Baker, 136.

Plant Genetics

Alfalfa: lobed-cambium trait in roots, 419.
Arachis: chromosomes of section *Arachis*, 403.
Barley: gene triplication in diploid wild, 374; allelic relationships of three uzu genes, 455.
Beans: inheritance of pale-green foliage mutant in *Phaseolus vulgaris* L., 218; lanceolate leaf mutation, 431.
Brassica nigra: 13 marker genes, 289.
Coleus: differences among cultivars in tolerance to ozone and sulfur dioxide, 459.
Cotton: chromosome configurations and orientations in 58 heterozygous translocations in *Gossypium hirsutum*, 161; genetics of D_3 complementary lethality in *Gossypium hirsutum* and *G. barbadense*, 299.
Cucurbita: gametophytic transcription for acid phosphatases in pollen of species hybrids, 353; genetic control of gynoecy in buffalo gourd, *C. foetidissima*, 355.
Elymus: an intergeneric hybrid of *Triticum aestivum* L. × *E. giganteus*, 253.
Forest genetics: interpretation of malate dehydrogenase isozymes in conifer species, 451.
Fragaria vesca: genetic model for enzyme marker PGI in diploid California, 117.
Hibiscus: photosensitivity in roselle, *H. sabdariffa*, 443.
Hordeum: apomictic progeny derived from intergeneric *Hordeum–Triticum* hybrids, 284.
Kalmia: inheritance of ornamental traits in *K. latifolia*, 245.
Maize: gene dosage effects on catalase expression, 11; white pollen, 318; substituting chromosome segments from four inbred lines into inbred line W22, 399.
Marigold: trisomic plants of diploid *Tagetes erecta*, 441.
Millet: a compensating trisomic, 354.
Monotropa: chromosomes of *M. uniflora*, 458.
Nicotiana: significance of multiple shoots on haploid plantlets, 67; Chinese hamster ovary chromosomes and antigens in tobacco/hamster heterokaryons, 81; hybrid vigor in callus tissue cultures and seedlings of *N. tabacum* L., 172; role of nucleolar chromosomes in anther-restoration of male-sterile tobacco, 413; cleistogamous mutant in *N. tabacum*, 449.
Origanum vulgare: wide nucleo-cytoplasmic polymorphism for male sterility, 45.
Panicum maximum: polypeptides in ovaries from sexual and apomictic plants, 368.
Pelargonium × *hortorum:* organelle alteration vs. physical exclusion, 335.
Pinus: karyotype analysis and the distribution of constitutive heterochromatin in five species, 193.
Red clover: phenotypic recurrent selection for intensity of petal color, 275.
Rice: nodal planting—a new means of clonal propagation, 298.
Secale: Triticum timopheevii × *S. cereale* crossability, 227.
Sorghum: cytological effect associated with trisomics "light green," 59; allelism tests of brown-midrib mutants, 147.
Soybeans: inheritance of two chlorophyll-deficient mutants, 141; amylase variation in cultivated and wild varieties, 382.
Tree chromosomes: differential reactivity to staining, 62.
Triticinae: evolutionary relationships based on C-bands in six species, 391.
Triticum: genetic male and chemically induced sterility in *T. aestivum*, 52; D-genome sources of resistance in *T. tauschii* to Hessian fly, 126; *T. timopheevii* × *Secale cereale* crossability, 227; an intergeneric hybrid of *T. aestivum* × *Elymus giganteus*, 253; apomictic progeny derived from intergeneric *Hordeum–Triticum* hybrids, 284.
Ustilago hordei: effect of environment and genotype and their interaction on pathogenicity, 261.
Vigna: resistance to blackeye cowpea mosaic virus in *V. unguiculata*, 433.
Vitis: resistance to anthracnose, 423.
Polypeptides in ovaries from sexual and apomictic *Panicum maximum* Jacq., I. E. Yates, J. D. Robbins, and W. W. Hanna, 368.
Population genetics, W. J. Ash (Rev.), 371.
Population genetics of *Drosophila nasuta nasuta, Drosophila nasuta albomicana* and their hybrids: VI. Pattern of meiotic F_1 chromosome segregation, H. A. Ranganath and N. B. Krishnamurthy, 19.
Possible effect of a sex chromosome on reproductive performance in Columbidae, M. R. Irwin and L. J. Cole, 209.
Prasad, R., et al., Chromosome complement and banding patterns in a pelecaniform bird, *Phalacrocorax niger*, 447.
Price, J. O. and M. L. Beck, Genetic variation in the terrestrial isopod, *Armadillidium vulgare*, 15.
Prieur, D. J. and L. L. Collier: Inheritance of the Chediak-Higashi syndrome in cats, 175; Morphologic basis of inherited coat-color dilutions of cats, 178.
Progressive ankylosis, a new skeletal mutation in the mouse, H. O. Sweet and M. C. Green, 87.
Provvidenti, R., et al., Inheritance of resistance to blackeye cowpea mosaic virus in *Vigna unguiculata*, 433.

Raana, K., et al., Genetic sexing for a mosquito sterile-male release, 216.
Rajendra, B. R. and L. S. Bates, Genetic male and chemically induced sterility in *Triticum aestivum:* a comparison of events leading to sterility via cytogenetic and SEM analysis of microsporogenesis, 52.
Ranganath, H. A. and N. B. Krishnamurthy, Population genetics of *Drosophila nasuta nasuta, Drosophila nasuta albomicana* and their hybrids: VI. Pattern of meiotic F_1 chromosome segregation, 19.
Rapid unidirectional change of hybrid dysgenesis potential in *Drosophila*, M. G. Kidwell, J. B. Novy, and S. M. Feeley, 32.
Reciprocal translocations and partial correlation of chromosomes in the stable fly, N. L. Willis, J. A. Seawright, C. Nickel, and D. J. Joslyn, 104.
Recombination rate variability in *D. melanogaster* females subjected to temperature stress, M. L. Tracey and B. Dempsey, 427.
Reissig, M., et al., Control of cytoplasmic incompatibility in the *Aedes scutellaris* complex: incompatible crosses become compatible by treatment of larvae with heat or antibiotics, 313.
Relationship between the dwarfing gene and *E. coli* infection in two populations of chickens, J. M. Mauldin, F. A. Marsteller, W. B. Gross, and P. B. Siegel, 125.
Rex mutant in the Norway rat, R. Robinson, 131.
Riggins, R. S., et al., Genetics of scoliosis in chickens, 6.
Rizki, R. M. and T. M. Rizki, Genetics in tumor-W in *Drosophila melanogaster:* mapping a gene with incomplete penetrance, 78.
Rizki, T. M. and R. M. Rizki, Genetics of tumor-W in *Drosophila melanogaster:* mapping a gene with incomplete penetrance, 78.
Robbins, J. D., et al., Polypeptides in ovaries from sexual and apomictic *Panicum maximum* Jacq., 368.
Robertson, D. S., et al., Effects of substituting segments of the long arm of chromosome 10 from four inbred lines into inbred line W22 of maize, 399.
Robertsonian variation in *Mus musculus* from Central Europe, Spain, and Scotland, S. Adolph and J. Klein, 219.

Robinson, R., Rex mutant in the Norway rat, 131; Agouti alleles of *Peromyscus*, 132.
Robinson, R. and M. Henley, Non-agouti and pink-eyed dilution in the Mongolian gerbil, 60.
Robinson, R. W., et al., Gametophytic transcription for acid phosphatases in pollen of *Cucurbita* species hybrids, 353.
Rodriguez, R. and A. Mujeeb-Kazi, An intergeneric hybrid of *Triticum aestivum* L. × *Elymus giganteus*, 253.
Role of nucleolar chromosomes in anther-restoration of male-sterile tobacco, J. A. Burns and D. U. Gerstel, 413.
Ross, M. H. and D. G. Cochran: Synthesis and properties of a double translocation heterozygote involving a stable ring-of-six interchange in the German cockroach, 39; Differential effects of duplication-deficiency gametes from *T(3;12)* on embryonic development in the German cockroach, 57.
Rothschild, M. F. and M. Grossman, Teaching Mendelian inheritance with a herediscope, 64.
Ruvinsky, A. O., et al.: Inheritance of alternative states of the fused gene in mice, 107; Inherited activation-inactivation of the star gene in foxes: its bearing on the problem of domestication, 267.

Saini, R. S. and J. L. Minocha, A compensating trisomic in pearl millet, 354.
Sakai, R. K., et al.: A phosphoglucomutase polymorphism in the mosquito, *Anopheles culicifaces*, 136; Genetic sexing for a mosquito sterile-male release, 216.
Samanta, M., et al., Chromosome complement and banding patterns in a pelecaniform bird, *Phalacrocorax niger*, 447.
Sanders, B. G., et al., Erythrocyte alloantigens in the Storrs strain of hereditary muscular dystrophic chickens and segregating testcross progeny, 279.
Scandalios, J. G., et al., Gene dosage effects on catalase expression in maize, 11.
Schalles, R. R., et al., Hereditary polydactyly in Simmental cattle, 205.
Schreerens, J. C., et al., Genetic control of gynoecy in the buffalo gourd, 355.
Schlarbaum, S. E. and T. Tsuchiya, Differential reactivity to staining in tree chromosomes, 62.
Schleger, W., et al., Nucleolus organizer regions in the chromosomes of the domestic horse, 357.
Schneider, H. J., et al., Hereditary polydactyly in Simmental cattle, 205.
Searle, A. G., et al., Chromosome 18 of the house mouse, 409.
Seawright, J. A., et al.: Reciprocal translocations and partial correlation of chromosomes in the stable fly, 104; Linkage relationships and assignment of esterase-4 and esterase-8 loci to chromosome 3 in *Anopheles albimanus*, 157.
Selander, R. B. and D. L. Swofford, BIOSYS-1: a FORTRAN program for the comprehensive analysis of electrophoretic data in population genetics and systematics, 281.
Semeniuk, P. and H. E. Heggestad, Differences among *Coleus* cultivars in tolerance to ozone and sulfur dioxide, 459.
Shiverer: an autosomal recessive mutant mouse with myelin deficiency, G. F. Chernoff, 128.
Siegel, P. B. and R. E. Truax, An autosomal allelic series for plumage color in Japanese quail, 61.
Siegel, P. B., et al., The relationship between the dwarfing gene and *E. coli* infection in two populations of chickens, 125.
Significance of multiple shoots on haploid plantlets of tobacco, L. G. Burk, 67.
Smyth, J. R., Jr., Canine genetics (Rev.), 372.
Smyth, J. R., Jr., et al., The DAM chicken: a model for spontaneous postnatal cutaneous and ocular amelanosis, 151.
Sokoloff, A., et al., Horned gena, an atavistic sex-linked dominant mutation in *Tribolium confusum*, 229.
Some rare cases of chimerism in twin cattle and their proposed use in determining germinal cell migration, G. Stranzinger, G. Dolf, R. Fries, and H. Stocker, 360.
Somes, R. G., Jr. and M. S. Pabilonia, Ear tuftedness: a lethal condition in the Araucana fowl, 121.
Sources and inheritance of resistance to anthracnose in *Vitis*, J. A. Mortensen, 423.
Spleen-shape as a genetic marker in X/Gf mice, R. Banerjee, A. Goldfeder, and J. Mitra, 222.
Sponenberg, D. P. and A. deLahunta, Hereditary hypertrophic neuropathy in Tibetan Mastiff dogs, 287.
Stalker, H. T. and R. D. Dalmacio, Chromosomes of *Arachis* species, section *Arachis*, 403.
Stanescu, R., et al., Fragilitas ossium: a new autosomal recessive mutation in the mouse, 440.
Stanescu, V., et al., Fragilitas ossium: a new autosomal recessive mutation in the mouse, 440.
Stansfield, W. D., The hairless-obese mouse, 395.
Stocker, H., et al., Some rare cases of chimerism in twin cattle and their proposed use in determining germinal cell migration, 360.
Stranzinger, G., et al., Some rare cases of chimerism in twin cattle and their proposed use in determining germinal cell migration, 360.
Studies on the H-W (H-Y) antigen in chickens: evidence for H-W monomorphism and line specific restriction of graft rejection, J. R. McCarrey, H. Abplanalp and U. K. Abbott, 169.
Sweet, H. O. and M. C. Green, Progressive ankylosis, a new skeletal mutation in the mouse, 87.
Swofford, D. L. and R. B. Selander, BIOSYS-1: a FORTRAN program for the comprehensive analysis of electrophoretic data in population genetics and systematics, 281.
Synthesis and properties of a double translocation heterozygote involving a stable ring-of-six interchange in the German cockroach, M. H. Ross and D. G. Cochran, 39.

Tabachnick, W. J., Organic evolution, (Rev.), 232.
Taiwo, M. A., et al., Inheritance of resistance to blackeye cowpea mosaic virus in *Vigna unguiculata*, 433.
Tallman, G., et al., Genetic variation in serum enzymes of Belding's Savannah sparrows, 438.
Taylor, B. A. and F. H. Wilcox, Genetics of the *Akp-2* locus for alkaline phosphatase of liver, kidney, bone, and placenta in the mouse: linkage with the *Ahd-1* locus on chromosome 4, 387.
Taylor, N. L. and P. L. Cornelius, Phenotypic recurrent selection for intensity of petal color in red clover, 275.
Teaching Mendelian inheritance with a herediscope, M. F. Rothschild and M. Grossman, 64.
Thirteen marker genes in *Brassica nigra*, P. A. Delwiche and P. H. Williams, 289.
Tracey, M. L. and B. Dempsey, Recombination rate variability in *D. melanogaster* females subjected to temperature stress, 427.
Tricicum timopheevii × *Secale cereale* crossability, A. Mujeeb-Kazi, 227.
Trisomics in diploid marigold, *Tagetes erecta*, Y. J. Lin and J. F. Chen, 441.
Trpis, M., et al., Control of cytoplasmic incompatibility in the *Aedes scutellaris* complex: incompatible crosses become compatible by treatment of larvae with heat or antibiotics, 313.
Truax, R. E. and P. B. Siegel, An autosomal allelic series for plumage color in Japanese quail, 61.
Trut, L. N., et al., Inherited activation-inactivation of the star gene in foxes: its bearing on the problem of domestication, 267.
Tsaftaris, A. S., et al., Gene dosage effects on catalase expression in maize, 11.
Tsuchiya, T., Further results on the allelic relationships of three uzu genes in barley, 455.
Tsuchiya, T. and S. E. Schlarbaum, Differential reactivity to staining in tree chromosomes, 62.
Turkey-chicken hybrids: a cytological study of early development, K. Harada and E. G. Buss, 264.

Ultrastructural studies of the nucleoli in diploid and trisomic chickens, M. J. Macera and S. E. Bloom, 249.

Van Vleck, L. D. and L. Cape, Heritability of training scores for standardbred yearlings, 437.
Van Vleck, L. D., et al., Coat color and gestation length in Thoroughbred mares, 65.
Variation in spermatozoal levels of phosphoglycerate kinase-2 in mice, R. P. Erickson and K. Harper, 129.
Varnum, D. S. and S. C. Fox, Head blebs: a new mutation on chromosome 4 of the mouse, 293.
Vaughn, K. C., Organelle transmission in higher plants: organelle alteration vs. physical exclusion, 335.
Vogt, D. W., et al., Mandibular prognathism in the rabbit: discrimination between single-locus and multifactorial models of inheritance, 296.
Vrijenhoek, R. C. and M. Mulvey, Multiple paternity in the hermaphroditic snail, *Biomphalaria obstructa*, 308.

Waring, A. D., High level of genetic variability among commercially available "inbred" Mongolian gerbils, 370.
Wavy: a new recessive rexoid mutant in the Norway rat, J. H. Greaves, 291.
White pollen in maize, E. H. Coe, S. M. McCormick, and S. A. Modena, 318.
White skin: a Z-linked recessive mutation in the fowl, W. H. McGibbon, 139.
White spotting allele alters color of yellow mice, M. L. Lamoreux, 223.
Wide nucleo-cytoplasmic polymorphism for male sterility in *Origanum vulgare* L., A. Kheyr-Pour, 45.
Wilcox, F. H. and B. A. Taylor, Genetics of the *Akp-2* locus for alkaline phosphatase of liver, kidney, bone, and placenta in the mouse: linkage with the *Ahd-1* locus on chromosome 4, 387.
Williams, J. B. et al., Genetic variation in serum enzymes of Belding's Savannah sparrows, 438.
Williams, J. D., et al., Genetic effects on serum cholesterol concentrations in baboons, 97.
Williams, P. H. and P. A. Delwiche, Thirteen marker genes in *Brassica nigra*, 289.
Willis, N. L., et al., Reciprocal translocations and partial correlation of chromosomes in the stable fly, 104.
Wilson, E. O., Epigenesis and the evolution of social systems, 70.

Wilson, S. P. and D. P. Doolittle, Crossing selected lines vs. selecting from a cross in mice, 142.
Wright, J. E., Jr. and G. M. Lee, Mitotic and meiotic analyses of brook trout, *Salvelinus fontinalis*, 321.
Wyatt, J. E., Inheritance of a pale-green foliage mutant in beans, *Phaseolus vulgaris* L., 218.

XXY-trisomy identified by banding techniques in a male tortoiseshell cat, M. Hageltorn and I. Gustavsson, 132.

Yates, I. E., et al., Polypeptides in ovaries from sexual and apomictic *Panicum maximum* Jacq., 368.
Yoon, C. H., et al., Five new mutations in the Syrian hamster: furloss, fur-deficiency, juvenile gray, ashen, and quaking, 445.

Zweifel, R. G., Genetics of color pattern polymorphism in the California kingsnake, 238.
Zweifel, R. G. and H. C. Dessauer, Inheritance of transferrin, phosphoglucomutase, 6-phosphogluconate dehydrogenase, and prolidase in a breeding colony of kingsnakes, 453.